

Exploration Medical Capability (ExMC) Element

January 2017

## Storyboard for the Medical System Concept of Operations for Mars Exploration Missions

### Storyboard for the Medical System Concept of Operations for Transit to Mars

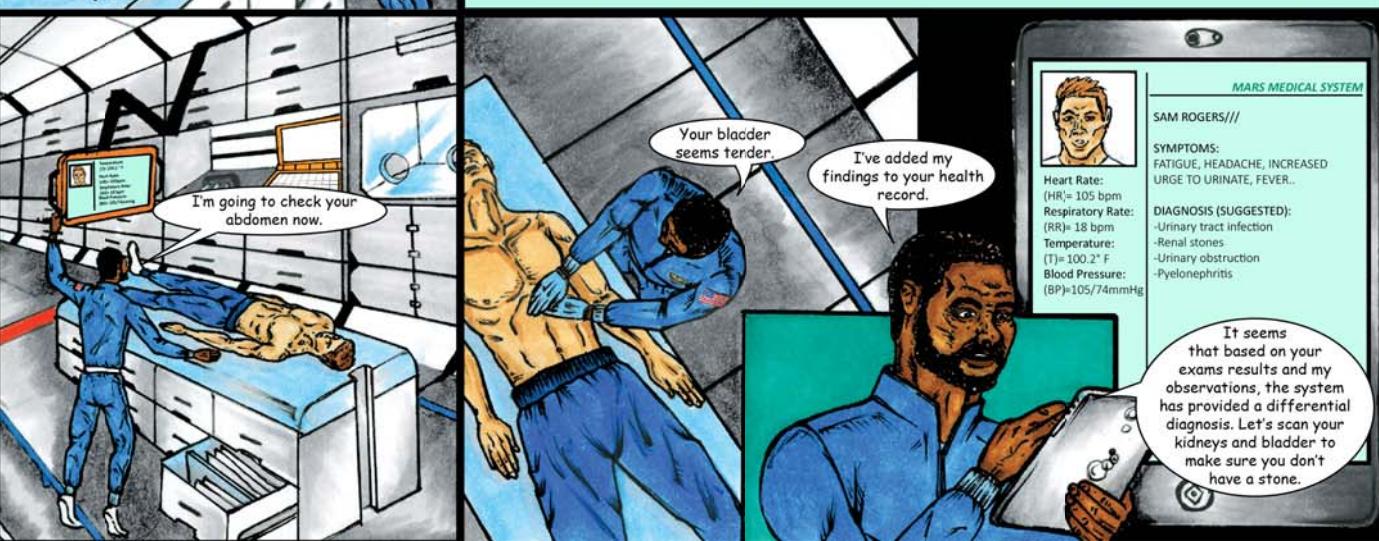
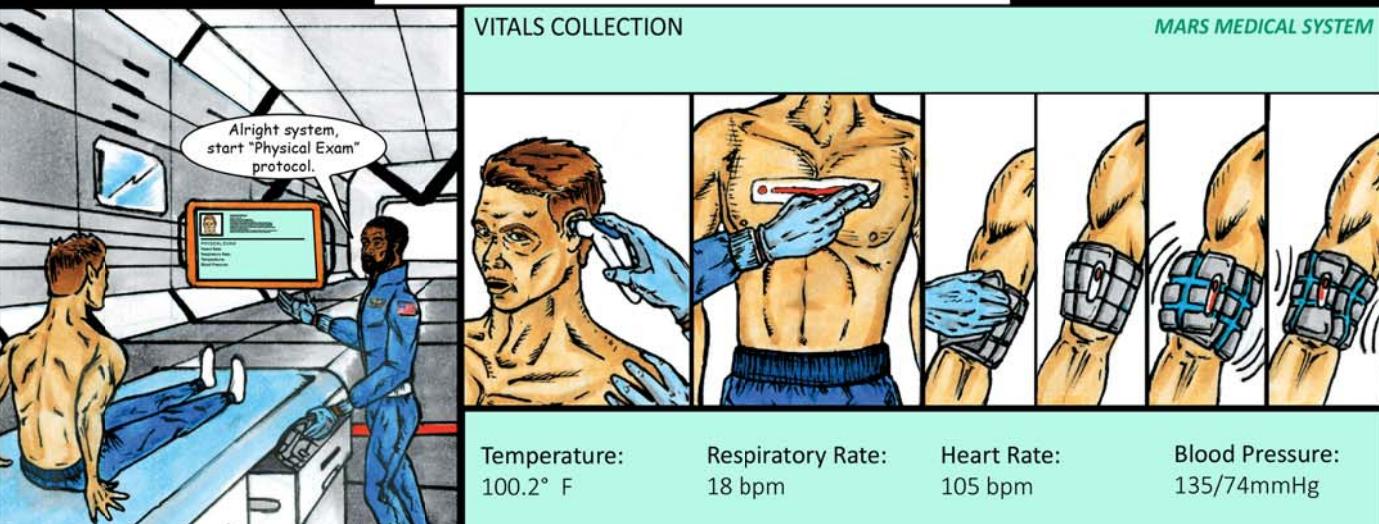
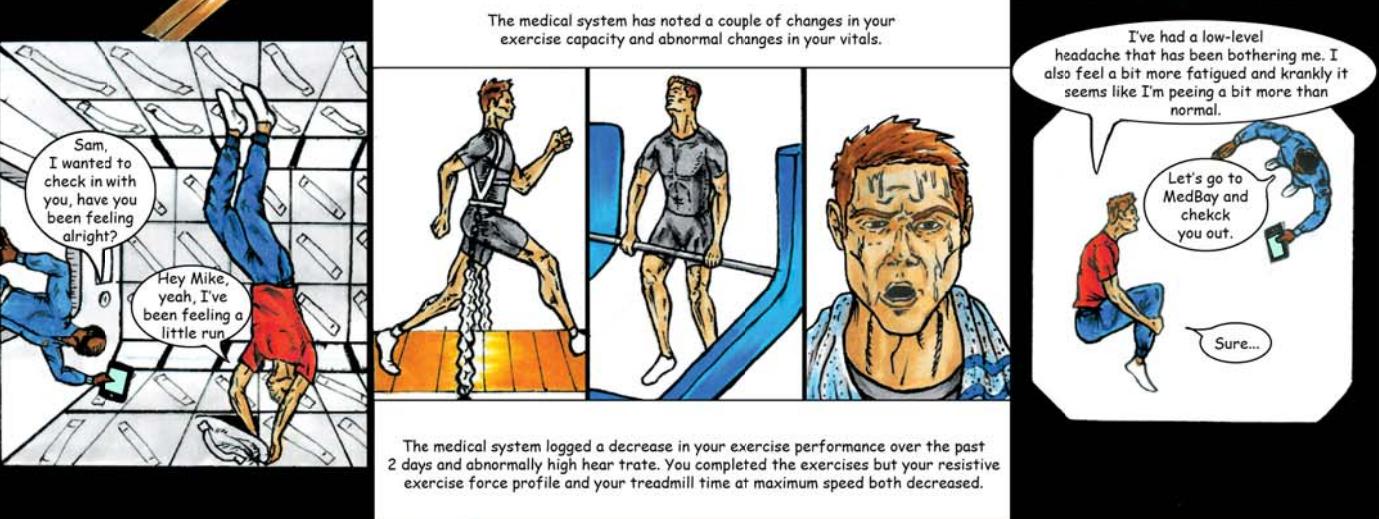
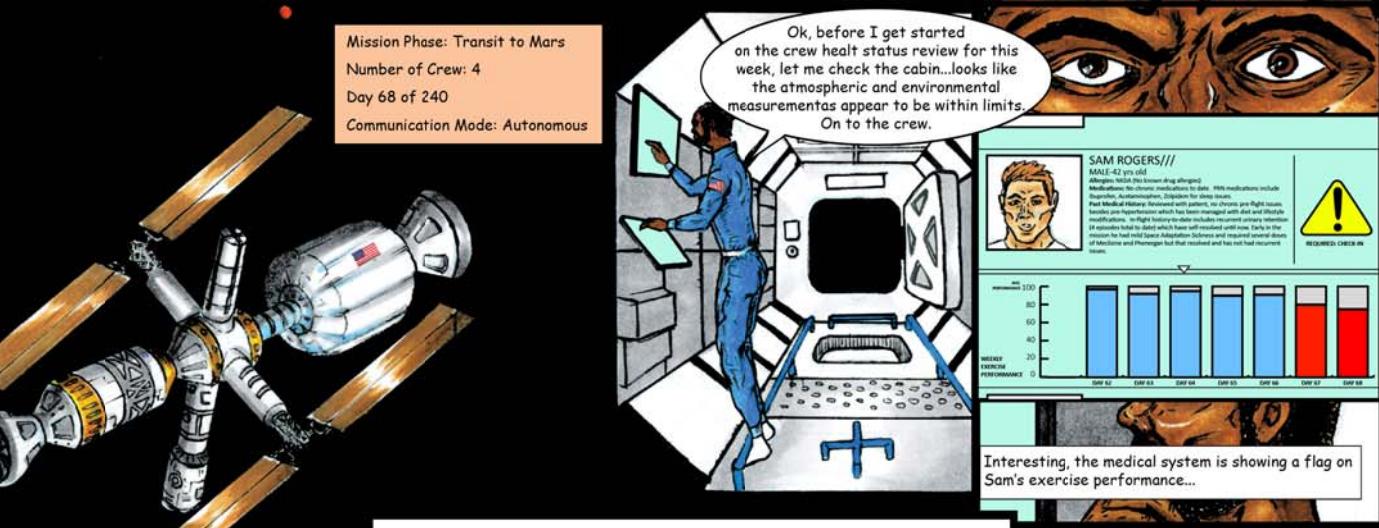


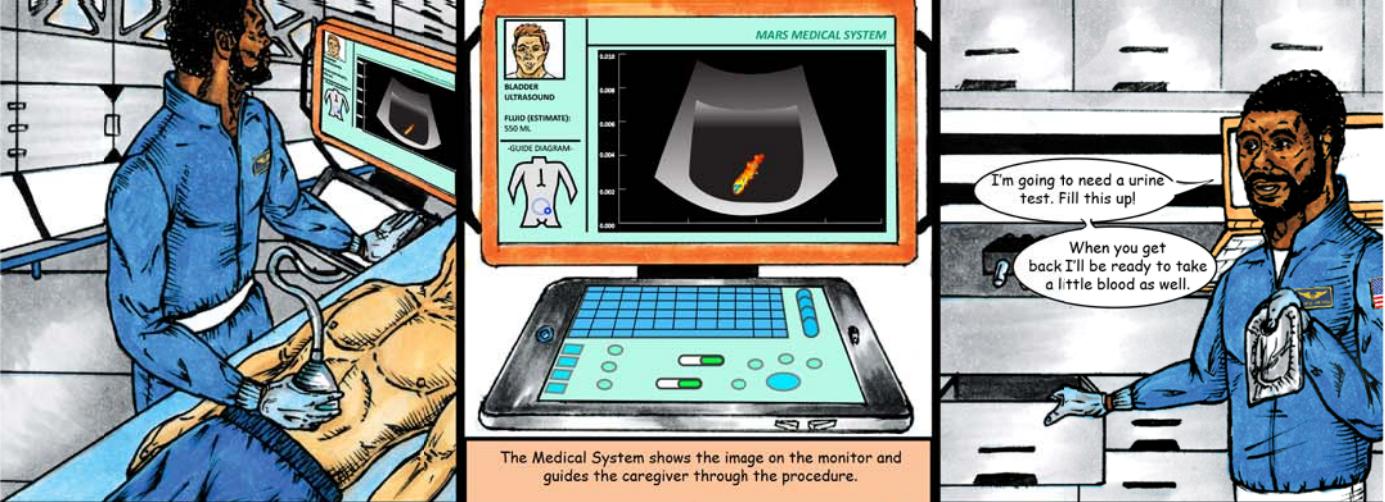
This storyboard conceptualizes one scenario of an integrated medical system during a Mars exploration mission. All content is for illustrative purposes only and neither defines nor implies system design requirement.

Illustration by Jesus Garate

Narrative by Eric Antonsen, MD, PhD

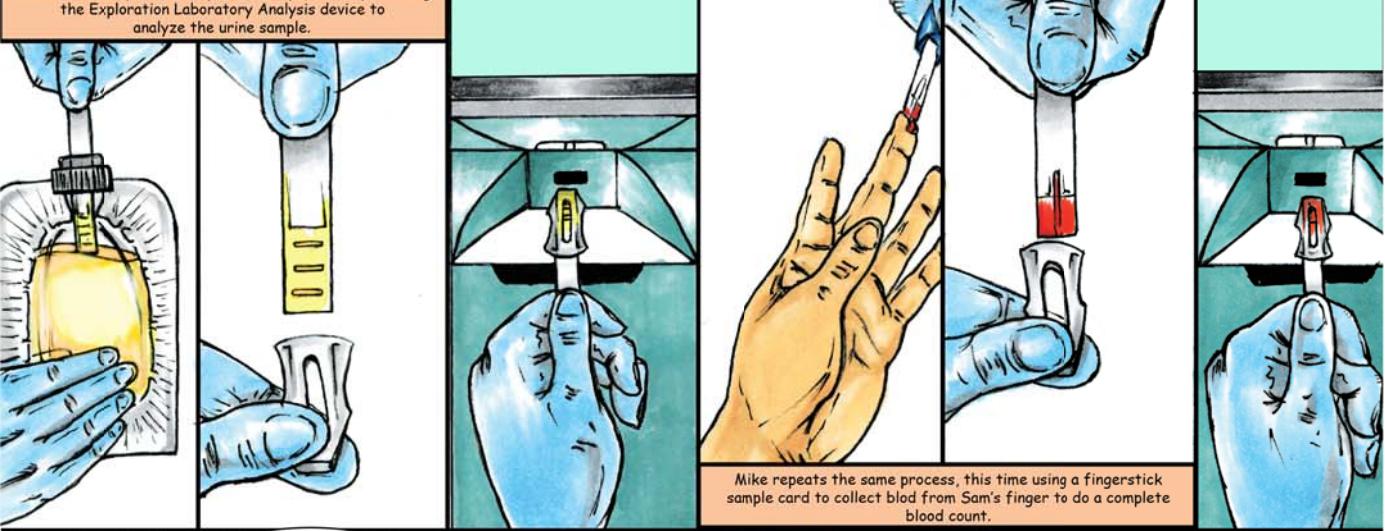
Mars Medical System ConOps Team: Melinda Hailey; David Reyes, MD; David Rubin; Michelle Urbina



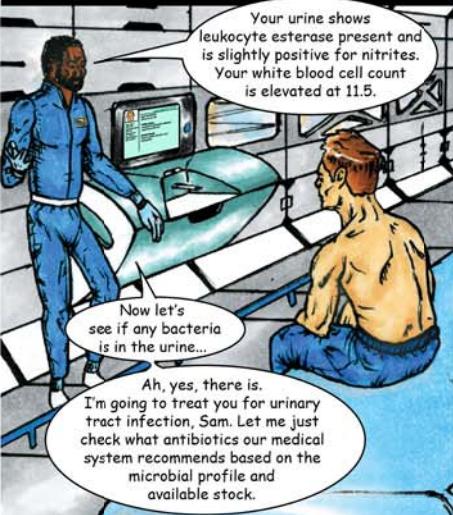


Mike uses a sample card to put in the optical analyzer using the Exploration Laboratory Analysis device to analyze the urine sample.

The Medical System shows the image on the monitor and guides the caregiver through the procedure.



MIKE: Mike repeats the same process, this time using a fingerstick sample card to collect blood from Sam's finger to do a complete blood count.



The medical system automatically synchronizes the ship's crew health records with the ground version.

